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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT, EASTERN KAZAKH, 29 OCTOBER 1975

Teledyne Geotech

Prepared for:

Air Force Technical Applications Center

5 February 1976

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### SPECIAL DATA COLLECTION SYSTEM EVENT REPORT Eastern Kazakh, 29 October 1975

K.J. Hill, M.S. Dewkins, R.R. Baumstark, and M.D. Gillispie Alexendria Laboretories Taledyne Geotech, 314 Montgomary Streat, Alexandria, Virginia 22314

February 1976

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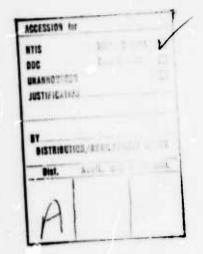
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SDCS EVENT REPORT NO. 70

Eastern Kazakh, 29 October 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m	Ms	
NORSAR Hagfors	04:54:20.7 04:54:11.2	04:47:00 04:46:24		079 E 085 E			

Using SDCS stations and NORSAR, the epicenter location and magnitudes become

04:47:02.5 50.5N 078.7E 5.7 3.5

All SDC: stations were operational during this period.

Short-period signals associated with this event were recorded at WH2YK, HN-ME, RK-ON, FN-WV and NORSAR. Horizontal SP channels at HN-ME, WH2YK and FN-WV were rotated. Horizontal SP channels at CPSO were not rotated because the SP north channel was inoperative. Horizontal channels at RK-ON were not rotated because of data spikes. LASA short-period data were not recoverable.

NORSAR recorded a long-period signal for this event. Signal arrivals at the SDCS stations and ALPA could not be determined because of signal masking by event from Mexico. Horizontal LP channels at all SDCS stations were rotated. Validity of ALPA and NORSAR long-period vertical beams is questionable and ho izontal beams were not included because of program recovery problems. LASA long-period data were not recoverable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of the MOPSAR short-period plot. Scaling factors are not reported for NORSAR short-period.



## STATION DESCRIPTION

SITE	LOCATION	SITE COORDINATES DEG AN SECS	ELEVATION METERS	INSTRUMENTATION SHORT-PERIOD LONG-	NTATION LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	0480 V 7515 H	SL210 V SL220 H
FN-W	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	K536000	KS30000
LAS1	Billings, Montana	46 41 19.0 N 106 13 20.0 W	다 다 !	HS10	8 2054 V
HN-ME	Houlton, Maine	46 09 43.0 N 06 59 09.0 W	213	18300	V 012.18
NORSAR	Njeller, Norway	010 49 25.4 N	379	HSIO	1 10 S
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	200	18300	7 E C C C C C C C C C C C C C C C C C C
WHILYK	White Horse, Yukon	00 41 41.0 N 151 58 02.0 W	ic.	18300	77

The orientation of the radial instruments at FN WA is assumed to be 316° + 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this immuth and may be questionable. Vote:

#### HYPOCENTER DETERMINATION

INFOT	FCF	EVENT	29 CC	T 75
04:47:C0.0	49	4000	75.0COE	OFM.

			FES	ITUALS	CIST.	AZ.
STA.	AFF	ILAL	CAIC	REST	REST	REST
NAC	04 54	20.7	-0.1	-0.0	38.0	312.4
WHZYK	C4 57	49.0	C.2	0.2	65.9	17.4
FK-CK	C4 59	05.7	-0.5	-0.6	78.9	355.1
FN-ME	04 55	10.5	C.6	0.5	79.5	337.2
FN-EV	04 59	59.6	-0.2	-0.1	89.3	343.1

#### 67 HERRIN TRAVEL TIME TABLES

CFIGIN	IAT.	ICNG.	DEFTH (KM)	SDV	IT	STA
04:47:13.4	50.938N	78.557E	62. CAIC	0.4	13	5
04:47:02.5	50.478N	78.723E	O. FEST	0.4	3	5

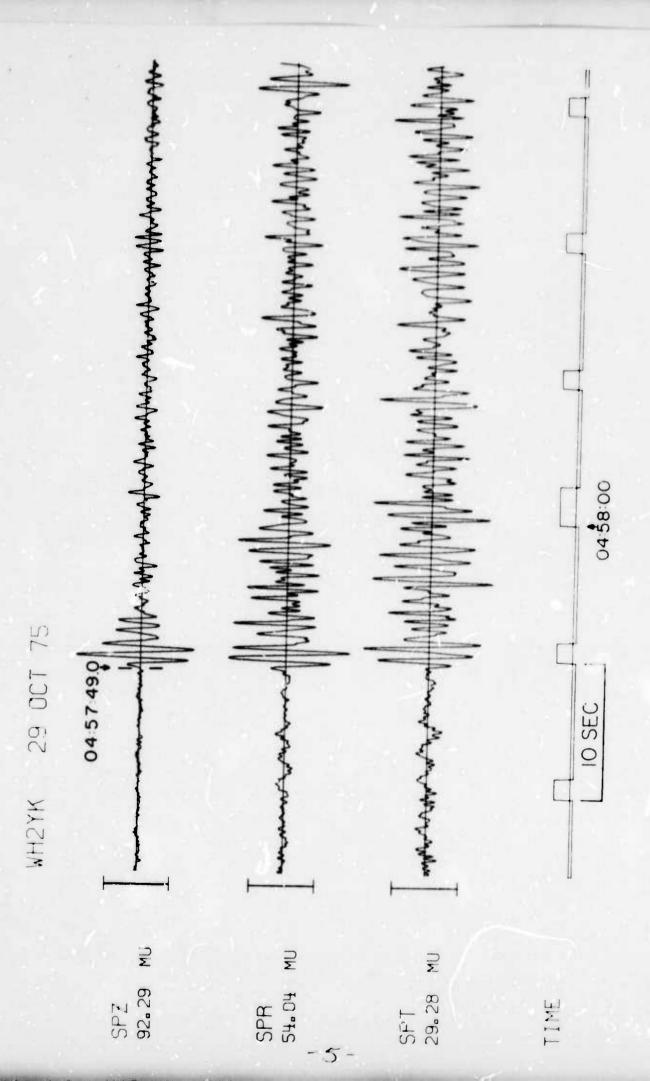
		CA	IC					FE	ST		
		3 .	1					3.	1		
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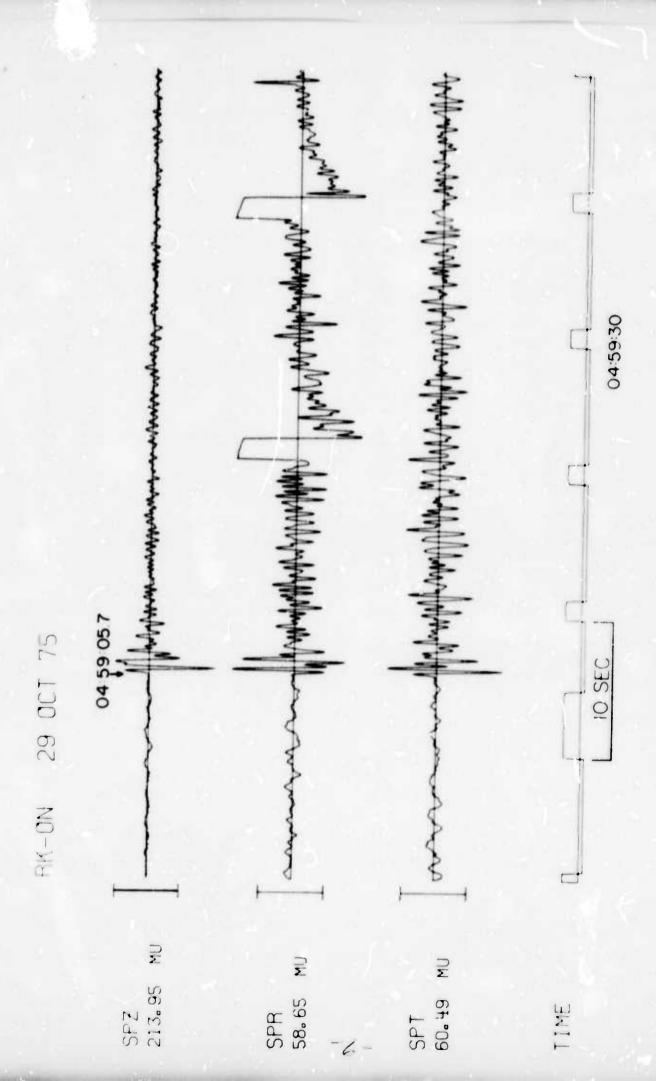
CHI2 CCVERAGE EILIFSE; 95 FER CENT CONF..LEVEL, SDV= 0.96
HAJCF 209.9KH. HINCR 43.7KM. AZ= 178 AREA= 28788 SC.KM. FEST

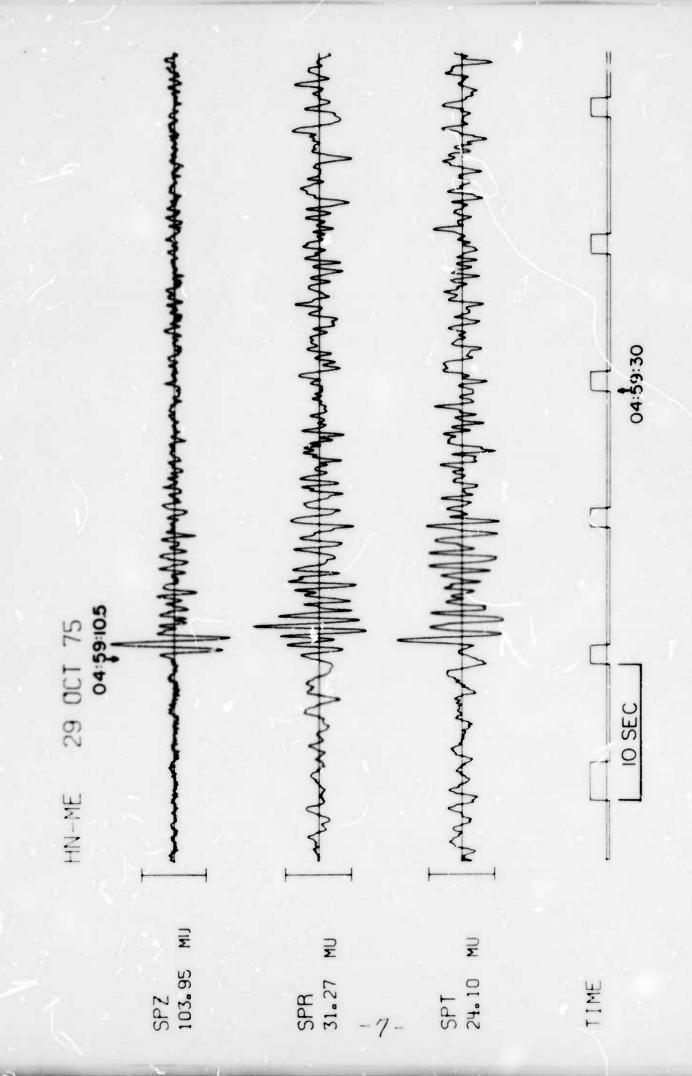
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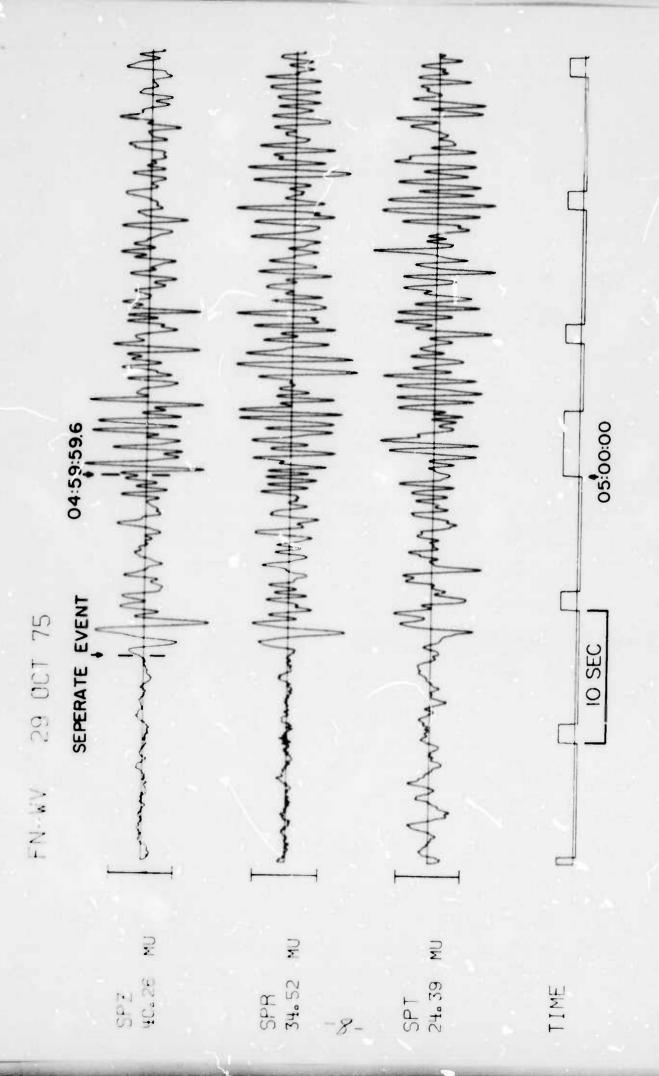
INFUT FCF EVENT 29 CCT 75 04:47:CC.0 49.000N 75.CCOE OFM.

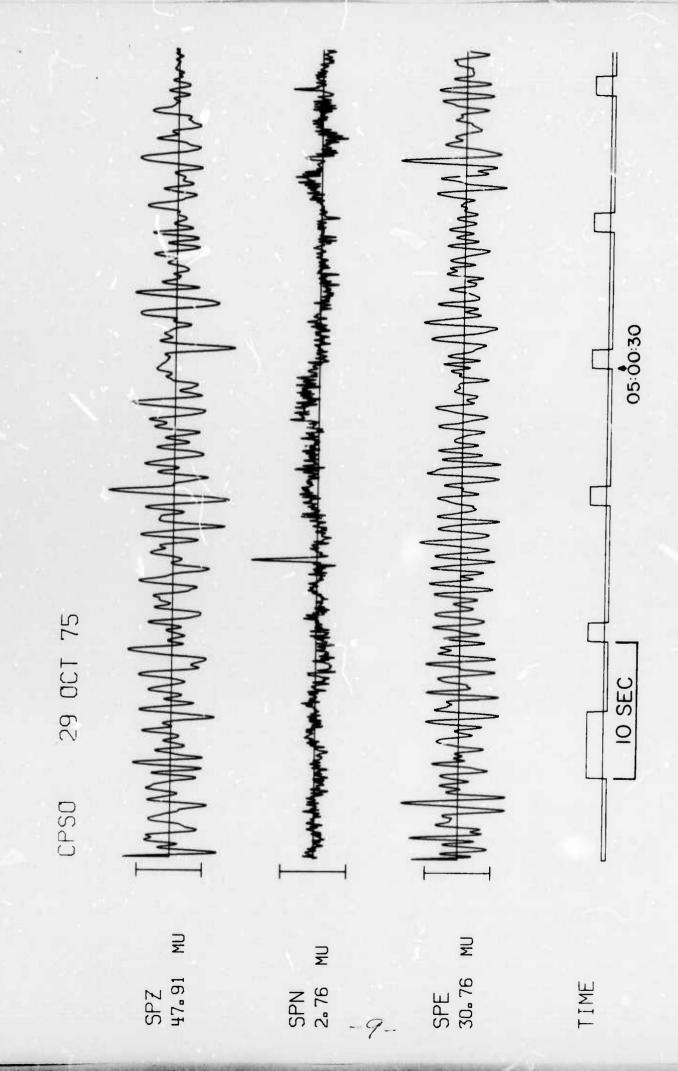
		A	FFI	VAL				MA	GNITO	DE		
SIA	_PHASE		11		_IRSI.	_FER_	MZI	ME.		ns	DIST DIST	
NAC	EP	04	= 4	20.7	AB	c.e	473.	5.8	7		38.0	
NAC	IR			ce.o	LFZ	20.0	6.		3.	48	38.0	
WHZYK	EP			49.0	SPZ	0.8	124.	5.7	9		65.9	
FR-CN	EP	04	59	05.7	SFZ	0.4	182.	5.7	7		78.9	
HK-ME	ř P			10.5		0.9	162.	5.6	€		79.5	
FN-WV	EP	04	55	59.€	SFZ	8.0	54.	5.4	3		89.3	
CEI	GIN	1	AT.		CNG.	DEPT	H (FE)	MAG	SDV	STA	LPHAG LPSDV	LPSTA
	47:13.4	-			E. 557E	62.		5.64	0.23		3.47*****	1
	47:02.5				.723E	0.	PEST	5.71	0.17	5	3.48*****	9.1





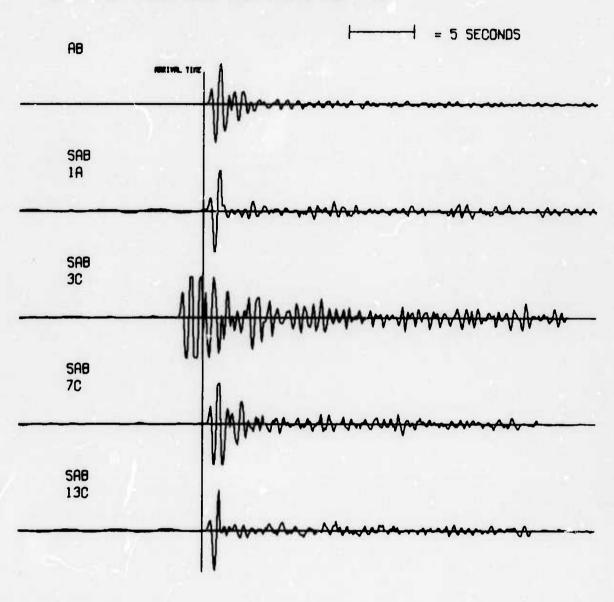






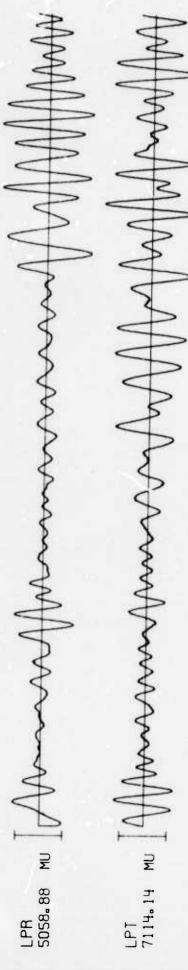
#### NORSAR EVENT FILE 1975 OCT 29

EPX NO. 56870 ARR. 04:54:20.5 47.8N 83.0E 5.8MB -0KM
DIST = 0.0 AZI = 0.0 AMP = 147.0 PER = 1.9

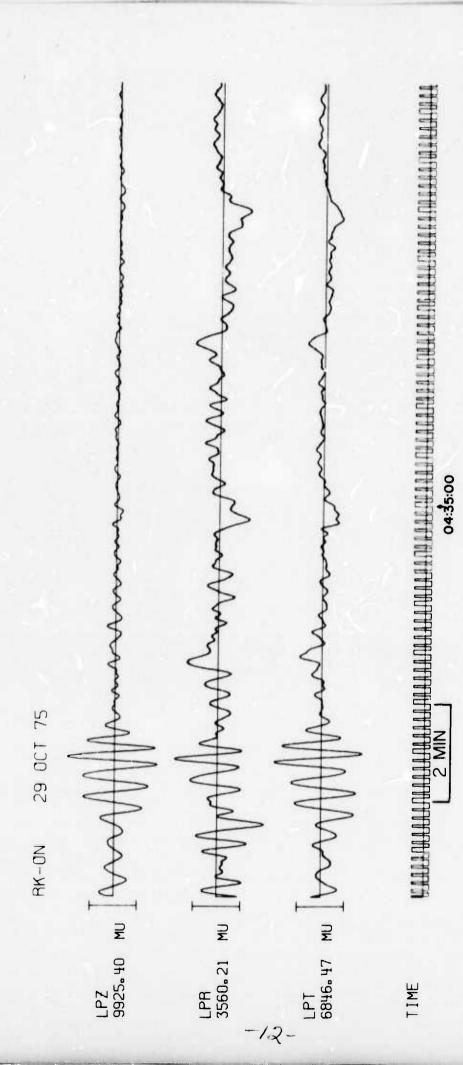




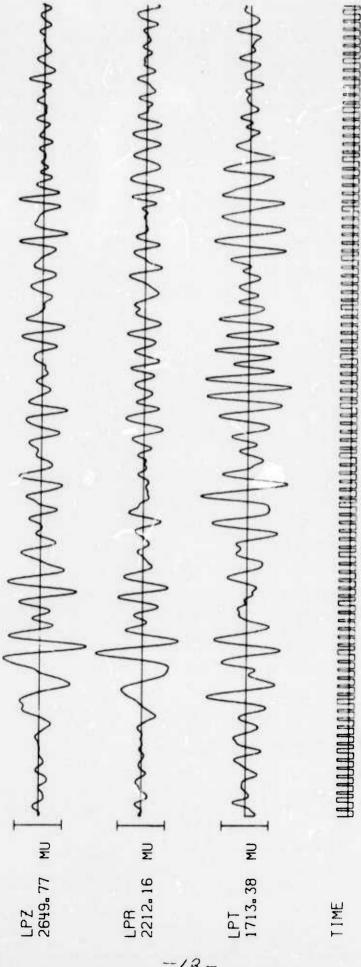












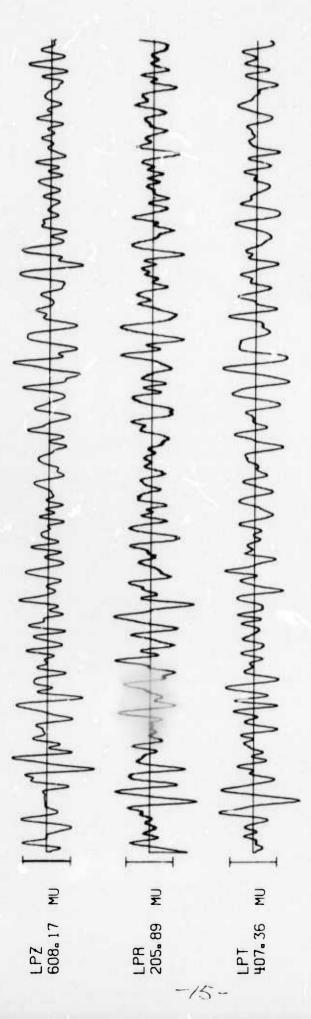
05:34:00

2 MIN

29 OCT 75

1515.27 M I WINDWYNGWYNGWYNGWYNDWYNDWYNGWWM 





2 MIN

# ARRAY LONG PERIOD VERTICAL BEAMS 29 OCT 75



